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TI - Neodymium luminescence in chalcogenides of europium-gallium: EuGaS<sub>4</sub>  
EuGa<sub>2</sub>Se<sub>4</sub>

DT - Journal

IN - Aslanov, G. K.; Niftiev, G. M.; Tagiev, O. B.; Briskina, Ch. M.; Zol  
F.; Markushev, V. M.

CS - Inst. Phys., Baku, USSR

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AB - Photoluminescence of EuGa<sub>2</sub>S<sub>4</sub> and EuGa<sub>2</sub>Se<sub>4</sub>, doped with Nd, was studied. The positions of Stark levels were detd. from the spectra. The symmetry of luminescence centers is lower than cubic and the existence of nonequivalent centers is established. At 77 K the decay time of luminescence from the excited levels of Nd<sup>3+</sup> depends on the spin of states. That indicates a slow relaxation rate in the crystals. The crystals probably can be used as effective luminophores.